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L1	5966	HTML and category and search\$5 and directory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:44
L2	173	1 and HTML same (category and search\$5 and directory)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:44
L3	11	2 and upload\$6 with (HTML or page or document) same search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:48
L4	12	2 and upload\$6 same (HTML or page or document) same search\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:49
L5	11	2 and upload\$6 with search\$6 and (HTML or page or document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:49
L6	255	1 and upload\$6 with search\$6 and (HTML or page or document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:49
L7	96	1 and upload\$6 with search\$6 with (HTML or page or document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:52
L8	73	7 and ("707"/\$.ccls. or "715"/\$.ccls. or "709"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/20 06:53



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Relevance scale



1 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#) Additional Information: [full citation](#), [abstract](#)

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January 2007 **Proceedings of the 12th international conference on Intelligent user interfaces IUI '07**

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Keywords: desktop search tools, human memory, personal information retrieval, user studies



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March 2003 **Proceeding of the eighth international conference on 3D Web technology Web3D '03**

Publisher: ACM Press

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Publisher: ACM Press

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October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**

Publisher: ACM Press

Full text available:  pdf(804.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Kevin Davis

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Publisher: ACM Press

Full text available:  pdf(189.83 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

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Keywords: e-mail autoresponder, help desk, knowledge management, student employee

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May 2003 **Proceedings of the 12th international conference on World Wide Web**
WWW '03

Publisher: ACM Press

Full text available:  pdf(485.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Keywords: MIME types, browsers, forms, mobile computing, sensors, ubiquitous computing

11 Correctness & security: SecuBat: a web vulnerability scanner

 Stefan Kals, Engin Kirda, Christopher Kruegel, Nenad Jovanovic
May 2006 **Proceedings of the 15th international conference on World Wide Web**
WWW '06

Publisher: ACM Press

Full text available:  pdf(335.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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 Wolfgang Prinz, Baber Zaman
November 2005 **Proceedings of the 2005 international ACM SIGGROUP conference on Supporting group work GROUP '05**

Publisher: ACM Press

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: awareness, content categorization for shared workspaces, noise detection for shared workspaces, office and workplace, semantic web for shared workspaces, shared

workspaces, similar documents search, social computing and social navigation

13 Protocols: The Eigentrust algorithm for reputation management in P2P networks 

 Sepandar D. Kamvar, Mario T. Schlosser, Hector Garcia-Molina
May 2003 **Proceedings of the 12th international conference on World Wide Web**
WWW '03

Publisher: ACM Press

Full text available:  pdf(202.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer file-sharing networks are currently receiving much attention as a means of sharing and distributing information. However, as recent experience shows, the anonymous, open nature of these networks offers an almost ideal environment for the spread of self-replicating inauthentic files. We describe an algorithm to decrease the number of downloads of inauthentic files in a peer-to-peer file-sharing network that assigns each peer a unique global trust value, based on the peer's history of ...

Keywords: distributed eigenvector computation, peer-to-peer, reputation

14 History places: A case study for relational database and information retrieval system 

 design
David G. Hendry
March 2007 **Journal on Educational Resources in Computing (JERIC)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available:  pdf(212.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents a project-based case study that was developed for students with diverse backgrounds and varied inclinations for engaging technical topics. The project, called History Places, requires that student teams develop a vision for a kind of digital library, propose a conceptual model, and use the model to derive a logical model and information retrieval specification. From these two design representations, students implement a data-driven Web site that enables users to browse c ...

Keywords: Case-based learning, UML, conceptual modeling, database management systems, design, education, informatics, information retrieval, lucene, postgresql

15 Service selection and metadata: Automating metadata generation: the simple 

 indexing interface
Kris Cardinaels, Michael Meire, Erik Duval
May 2005 **Proceedings of the 14th international conference on World Wide Web**
WWW '05

Publisher: ACM Press

Full text available:  pdf(302.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

16 Technologies for repository interoperation and access control

 Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**17 PubsOnline: open source bibliography database**

 Scott A. Myron, Richard Knepper, Matt Link, Craig Stewart
November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**

Publisher: ACM Press

Full text available:  pdf(779.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Universities and colleges, departments within universities and colleges, and individual researchers often desire the ability to provide online listings, via the Web, of citations to publications and other forms of information dissemination. Cataloging citations to publications or other forms of information dissemination by a particular organization facilitates access to the information, its use, and citation in subsequent publications. Listing, searching, and indexing of citations is further imp ...

Keywords: BibTeX, bibliographies, citation management, grant writing, open source, publications, record-keeping

**18 Mobile applications: Metadata creation system for mobile images**

 Risto Sarvas, Erick Herrarte, Anita Wilhelm, Marc Davis
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available:  pdf(564.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The amount of personal digital media is increasing, and managing it has become a pressing problem. Effective management of media content is not possible without content-related metadata. In this paper we describe a content metadata creation process for images taken with a mobile phone. The design goals were to automate the creation of image content metadata by leveraging automatically available contextual metadata on the mobile phone, to use similarity processing algorithms for reusing shared me ...

Keywords: automated content metadata, content-based image retrieval, digital image management, mobile camera phones, wireless multimedia applications

**19 Ten-year best paper award: Database-inspired search**

David Konopnicki, Oded Shmueli

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  pdf(309.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



"W3QL: A Query Language for the WWW", published in 1995, presented a language with several distinctive features. Employing existing indexes as access paths, it allowed the selection of documents using conditions on semi-structured documents and maintaining dynamic views of navigational queries. W3QL was capable of automatically filling out forms

and navigating through them. Finally, in the SQL tradition, it was a declarative query language, that could be the subject of optimization.Ten years lat ...

- 20 [Capturing context: Life is sharable: blogging life experience with RFID embedded mobile phones](#)

 Yun-Maw Cheng, Wai Yu, Tzu-Chuan Chou

September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05**

Publisher: ACM Press

Full text available:  pdf(261.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent development and proliferation of mobile devices, wireless communication, and sensor technologies have prompted a new vision of social interactions in the world in which we inhabit. For example, the number of mobile phones that are capable of capturing users' spontaneous life experiences not only in pictures but also in audio and video clips is on the increase. In addition, captured experiences can be sent and shared with others over wireless networks such as WiFi, GSM, GPRS, EDGE, or rece ...

Keywords: RFID, mobile phone, peer-to-peer communication, weblog, wireless networking

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Publisher: ACM Press

Full text available:  pdf(202.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer file-sharing networks are currently receiving much attention as a means of sharing and distributing information. However, as recent experience shows, the anonymous, open nature of these networks offers an almost ideal environment for the spread of self-replicating inauthentic files. We describe an algorithm to decrease the number of downloads of inauthentic files in a peer-to-peer file-sharing network that assigns each peer a unique global trust value, based on the peer's history of ...

Keywords: distributed eigenvector computation, peer-to-peer, reputation

14 History places: A case study for relational database and information retrieval system 

 design

David G. Hendry

March 2007 **Journal on Educational Resources in Computing (JERIC)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available:  pdf(212.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents a project-based case study that was developed for students with diverse backgrounds and varied inclinations for engaging technical topics. The project, called History Places, requires that student teams develop a vision for a kind of digital library, propose a conceptual model, and use the model to derive a logical model and information retrieval specification. From these two design representations, students implement a data-driven Web site that enables users to browse c ...

Keywords: Case-based learning, UML, conceptual modeling, database management systems, design, education, informatics, information retrieval, lucene, postgresql

15 Service selection and metadata: Automating metadata generation: the simple 

 indexing interface

Kris Cardinaels, Michael Meire, Erik Duval

May 2005 **Proceedings of the 14th international conference on World Wide Web**
WWW '05

Publisher: ACM Press

Full text available:  pdf(302.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we focus on the development of a framework for automatic metadata generation. The first step towards this framework is the definition of an Application Programmer Interface (API), which we call the Simple Indexing Interface (SII). The second step is the definition of a framework for implementation of the SII. Both steps are presented in some detail in this paper. We also report on empirical evaluation of the metadata that the SII and supporting framework generated in a real-life c ...

Keywords: learning objects, metadata generation

16 Technologies for repository interoperation and access control

 Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998 **Proceedings of the third ACM conference on Digital libraries DL '98**

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**17 PubsOnline: open source bibliography database**

 Scott A. Myron, Richard Knepper, Matt Link, Craig Stewart
November 2005 **Proceedings of the 33rd annual ACM SIGUCCS conference on User services SIGUCCS '05**

Publisher: ACM Press

Full text available:  pdf(779.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Universities and colleges, departments within universities and colleges, and individual researchers often desire the ability to provide online listings, via the Web, of citations to publications and other forms of information dissemination. Cataloging citations to publications or other forms of information dissemination by a particular organization facilitates access to the information, its use, and citation in subsequent publications. Listing, searching, and indexing of citations is further imp ...

Keywords: BibTeX, bibliographies, citation management, grant writing, open source, publications, record-keeping

**18 Mobile applications: Metadata creation system for mobile images**

 Risto Sarvas, Erick Herrarte, Anita Wilhelm, Marc Davis
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available:  pdf(564.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The amount of personal digital media is increasing, and managing it has become a pressing problem. Effective management of media content is not possible without content-related metadata. In this paper we describe a content metadata creation process for images taken with a mobile phone. The design goals were to automate the creation of image content metadata by leveraging automatically available contextual metadata on the mobile phone, to use similarity processing algorithms for reusing shared me ...

Keywords: automated content metadata, content-based image retrieval, digital image management, mobile camera phones, wireless multimedia applications

**19 Ten-year best paper award: Database-inspired search**

David Konopnicki, Oded Shmueli

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  pdf(309.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



"W3QL: A Query Language for the WWW", published in 1995, presented a language with several distinctive features. Employing existing indexes as access paths, it allowed the selection of documents using conditions on semi-structured documents and maintaining dynamic views of navigational queries. W3QL was capable of automatically filling out forms

and navigating through them. Finally, in the SQL tradition, it was a declarative query language, that could be the subject of optimization.Ten years lat ...

20 Capturing context: Life is sharable: blogging life experience with RFID embedded mobile phones 

 Yun-Maw Cheng, Wai Yu, Tzu-Chuan Chou

September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05**

Publisher: ACM Press

Full text available:  [pdf\(261.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent development and proliferation of mobile devices, wireless communication, and sensor technologies have prompted a new vision of social interactions in the world in which we inhabit. For example, the number of mobile phones that are capable of capturing users' spontaneous life experiences not only in pictures but also in audio and video clips is on the increase. In addition, captured experiences can be sent and shared with others over wireless networks such as WiFi, GSM, GPRS, EDGE, or rece ...

Keywords: RFID, mobile phone, peer-to-peer communication, weblog, wireless networking

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Relevance scale

- 21** [Understanding accessibility: A Semantic-web based framework for developing applications to improve accessibility in the WWW](#)
- Christos Kouroupetroglo, Michail Salampasis, Athanasios Manitsaris
May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**

Publisher: ACM Press

 Full text available: [pdf\(665.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the biggest issues the World Wide Web (WWW) community has to overcome is accessibility for all. The rapid expansion of the WWW using problematic web authoring practices, together with the dominance of the desktop metaphor in web page design has raised many WWW accessibility problems for people with disabilities. In this paper we present a what may be termed as a "Semantic Web application framework" which allows different applications to be designed and developed for improving accessibility ...

Keywords: RDF, accessibility, information seeking, metadata, semantic web, voice browser

- 22** [Semantic interfaces and OWL tools: How to make a semantic web browser](#)

D. A. Quan, R. Karger
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

 Full text available: [pdf\(484.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two important architectural choices underlie the success of the Web: numerous, independently operated servers speak a common protocol, and a single type of client the Web browser provides point-and-click access to the content and services on these decentralized servers. However, because HTML marries content and presentation into a single representation, end users are often stuck with inappropriate choices made by the Web site designer of how to work with and view the content. RDF metadata on the ...

Keywords: bioinformatics, rdf, semantic web, user interface, web services

◆ Applications: Exhibit: lightweight structured data publishing

David F. Huynh, David R. Karger, Robert C. Miller

**May 2007 Proceedings of the 16th international conference on World Wide Web
WWW '07****Publisher:** ACM PressFull text available: [pdf\(2.54 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The early Web was hailed for giving individuals the same publishing power as large content providers. But over time, large content providers learned to exploit the structure in their data, leveraging databases and server side technologies to provide rich browsing and visualization. Individual authors fall behind once more: neither old-fashioned static pages nor domain-specific publishing frameworks supporting limited customization can match custom database-backed web applications.

In t ...

Keywords: DOM, HTML, dynamic query, faceted browsing, filter, generated UI, lens, publish, sort, template, view, web**24 Network security: Web tap: detecting covert web traffic**

Kevin Borders, Atul Prakash

October 2004 Proceedings of the 11th ACM conference on Computer and communications security CCS '04**Publisher:** ACM PressFull text available: [pdf\(129.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As network security is a growing concern, system administrators lock down their networks by closing inbound ports and only allowing outbound communication over selected protocols such as HTTP. Hackers, in turn, are forced to find ways to communicate with compromised workstations by tunneling through web requests. While several tools attempt to analyze inbound traffic for denial-of-service and other attacks on web servers, Web Tap's focus is on detecting attempts to send significant amounts of ...

Keywords: HTTP, anomaly detection, covert channels, intrusion detection, spyware detection, tunnels**25 Authoring for comprehension: From the writable web to global editability**

Angelo Di Iorio, Fabio Vitali

September 2005 Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**Publisher:** ACM PressFull text available: [pdf\(695.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The technical and competence requirements for writing content on the web is still one of the major factors that widens the gap between authors and readers. Although tools that support an easy approach to web writing, such as blogs and wikis, are becoming increasingly important and mainstream, they still lack in terms of layout and typographical sophistication, and, most importantly, only allow local editing (on the pages that are stored by the application itself). In this paper we re-propose an ...

Keywords: collaboration, customization, data collection, global editability, web authoring**26 7a--Capturing Meaning: Hypertext and knowledge management**

Francisco J. Ricardo

 **September 2001 Proceedings of the twelfth ACM conference on Hypertext and Hypermedia HYPERTEXT '01**

Publisher: ACM Press

Full text available:  pdf(127.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a functional survey of knowledge management systems and characteristics from the standpoint of the contribution and relevance of hypertext to this discipline. There is the description of a typical KM architecture as well as some of the current KM and KM-like systems deployed in production at large corporations. This discussion will introduce the perceptions of KM and then emphasize the role of hypertext systems in tackling problems in processing distributed and collaborative kno ...

Keywords: hypertext, representation, rhetoric

27 Improving interaction: MADCOW: a multimedia digital annotation system 

 Paolo Bottoni, Roberta Civica, Stefano Levialdi, Laura Orso, Emanuele Panizzi, Rosa Trinchese

May 2004 **Proceedings of the working conference on Advanced visual interfaces AVI '04**

Publisher: ACM Press

Full text available:  pdf(396.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital annotation of multimedia documents adds information to a document (e.g. a web page) or parts of it (a multimedia object such as an image or a video stream contained in the document). Digital annotations can be kept private or shared among different users over the internet, allowing discussions and cooperative work. We study the possibility of annotating multimedia documents with objects which are in turn of multimedial nature. Annotations can refer to whole documents or single portions t ...

Keywords: annotation, multimedia document, plug-ins

28 User-friendly functional programming for web mashups 

 Rob Ennals, David Gay

October 2007 **ACM SIGPLAN Notices , Proceedings of the 2007 ACM SIGPLAN international conference on Functional programming ICFP '07**, Volume 42 Issue 9

Publisher: ACM Press

Full text available:  pdf(724.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

MashMaker is a web-based tool that makes it easy for a normal user to create web mashups by browsing around, without needing to type, or plan in advance what they want to do.

Like a web browser, Mashmaker allows users to create mashups by browsing, rather than writing code, and allows users to bookmark interesting things they find, forming new widgets - reusable mashup fragments. Like a spreadsheet, MashMaker mixes program and data and allows ad-hoc unstructured editing of programs.

Keywords: browser, end-user programming, mashup, web

29

People, places, things: web presence for the real world 

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(248.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

30 Agents, interactions, mobility, and systems (AIMS): Agent technology for

 **personalized information filtering: the PIA-system**

Sahin Albayrak, Stefan Wollny, Nicolas Varone, Andreas Lommatzsch, Dragan Milosevic

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available:  pdf(346.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As today the amount of accessible information is overwhelming, the intelligent and personalized filtering of available information is a main challenge. Additionally, there is a growing need for the seamless mobile and multi-modal system usage throughout the whole day to meet the requirements of the modern society ("anytime, anywhere, anyhow"). A personal information agent that is delivering the right information at the right time by accessing, filtering and presenting information in a situation- ...

Keywords: adaptation and learning, agent-based deployed applications, agents and complex systems, evolution, intelligent and personalized filtering, recommendation systems, ubiquitous access

31 Content: a practical, scalable, high-performance multimedia database

 Lawrence Yapp, Craig Yamashita, Gregory Zick

July 1997 **Proceedings of the second ACM international conference on Digital libraries DL '97**

Publisher: ACM Press

Full text available:  pdf(923.86 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

32 The digital library integrated task environment (DLITE)

 Steve B. Cousins, Andreas Paepcke, Terry Winograd, Eric A. Bier, Ken Pier

July 1997 **Proceedings of the second ACM international conference on Digital libraries DL '97**

Publisher: ACM Press

Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: digital library, direct-manipulation, holophrasing, user interface, world-wide

web

33 Preserving state government web publications: first-year experiences

Larry S. Jackson

May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03****Publisher:** Digital Government Research CenterFull text available:  pdf(38.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Government information publishing on the web encounters differing expectations concerning the permanence of documents. Presumptions of informality in web authoring and publishing widely persist. But, terms like "government documents" convey, at least to the layman, an expectation of formality, official content, and permanence. If permanent, searchable archives of electronic documents are to be constructed, issues in economical automated assembly and cataloging of multiple simultaneous versions o ...

34 Preserving state government web publications: first-year experiences

Larry S. Jackson

May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03****Publisher:** Digital Government Research CenterFull text available:  pdf(38.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

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35 People-centric urban sensing Andrew T. Campbell, Shane B. Eisenman, Nicholas D. Lane, Emiliano Miluzzo, Ronald A. PetersonAugust 2006 **Proceedings of the 2nd annual international workshop on Wireless internet WICON '06****Publisher:** ACM PressFull text available:  pdf(249.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The vast majority of advances in sensor network research over the last five years have focused on the development of a series of small-scale (100s of nodes) testbeds and specialized applications (e.g., environmental monitoring, etc.) that are built on low-powered sensor devices that self-organize to form application-specific multihop wireless networks. We believe that sensor networks have reached an important crossroads in their development. The question we address in this paper is how to pro ...

Keywords: mobile wireless sensor networks, people-centric, urban sensing**36 Real world applications: Evolving computer intrusion scripts for vulnerability** assessment and log analysis

Julien Budynek, Eric Bonabeau, Ben Shargel

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05****Publisher:** ACM PressFull text available:  pdf(456.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

terms

Evolutionary computation is used to construct undetectable computer attack scripts. Using a simulated operating system, we show that scripts can be evolved to cover their tracks and become difficult to detect from log file analysis.

Keywords: agent-based model, hacker, log analysis, script kiddies, vulnerability assessment

37 Safety and security: Using positive tainting and syntax-aware evaluation to counter 

 **SQL injection attacks**

William G. J. Halfond, Alessandro Orso, Panagiotis Manolios

November 2006 **Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '06/FSE-14**

Publisher: ACM Press

Full text available:  pdf(691.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SQL injection attacks pose a serious threat to the security of Web applications because they can give attackers unrestricted access to databases that contain sensitive information. In this paper, we propose a new, highly automated approach for protecting existing Web applications against SQL injection. Our approach has both conceptual and practical advantages over most existing techniques. From the conceptual standpoint, the approach is based on the novel idea of positive tainting and the concep ...

Keywords: SQL injection, dynamic tainting, runtime monitoring

38 Introduction to the Electronic Symposium on Computer-Supported Cooperative Work 

 Kevin L. Mills

June 1999 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available:  pdf(94.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer-supported cooperative work (CSCW) holds great importance and promise for modern society. This paper provides an overview of seventeen papers comprising a symposium on CSCW. The overview also discusses some relationships among the contributions made by each paper, and places those contributions into a larger context by identifying some of the key challenges faced by computer science researchers who aim to help us work effectively as teams mediated through networks of computers. The ...

Keywords: asynchronous collaboration, computer-supported collaborative work, human-computer interaction, information management, multimedia collaboration, multimodal collaboration

39 Communities: Blogging as social activity, or, would you let 900 million people read 

 **your diary?**

Bonnie A. Nardi, Diane J. Schiano, Michelle Gumbrecht

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04**

Publisher: ACM Press

Full text available:  pdf(376.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

"Blogging" is a Web-based form of communication that is rapidly becoming mainstream. In this paper, we report the results of an ethnographic study of blogging, focusing on blogs

written by individuals or small groups, with limited audiences. We discuss motivations for blogging, the quality of social interactivity that characterized the blogs we studied, and relationships to the blogger's audience. We consider the way bloggers related to the known audience of their personal social networks as ...

Keywords: WWW, activity theory, blogs, computer-mediated communication

40 Computer lab reservations: improving how to manage multiple reservation life cycles 

 Nicole M Sattler

November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

Publisher: ACM Press

Full text available:  [pdf\(356.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Since 2003, computer lab reservations during the summer semester have been growing more quickly than resources for managing computer lab reservations at the University of California, Berkeley. In the past one could easily manage the varying life cycles of lab reservations between May and August using notes and a paper calendar: the request, the lab's response to technical needs such as creating computer accounts, installing software and setting up printing capabilities, verification of fees paid ...

Keywords: computer facilities, computer labs, managing lab rentals, reservations

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Relevance scale

41 Macintosh OS X: a smooth migration

Scott E. Hanselman, Mahmoud Pegah

September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services SIGUCCS '03**

Publisher: ACM Press

Full text available: [pdf\(208.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Ringling School of Art and Design is a fully accredited four year college of visual art and design with a student population of approximately 1000. The Ringling School has achieved national recognition for its large-scale integration of technology into collegiate visual art and design education and maintains a student to computer ratio of better than two to one. Due to the demand for computing power and the requirement for ease of use, we moved our instructional computer laboratories to the ...

Keywords: Macintosh OS X, NFS, NIS, SSH, fonts, migration, network

42 Improved error reporting for software that uses black-box components

Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. Ramadan, Donald E. Porter, David L. Chen, Emmett Witchel

June 2007 **ACM SIGPLAN Notices , Proceedings of the 2007 ACM SIGPLAN conference on Programming language design and implementation PLDI '07**, Volume 42 Issue 6

Publisher: ACM Press

Full text available: [pdf\(345.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An error occurs when software cannot complete a requested action as a result of some problem with its input, configuration, or environment. A high-quality error report allows a user to understand and correct the problem. Unfortunately, the quality of error reports has been decreasing as software becomes more complex and layered. End-users take the cryptic error messages given to them by programs and struggle to fix their problems using search engines and support websites. Developers cannot imp ...

Keywords: classification, error report, machine learning, profiling, software support

43 Hypermedia in the Large: A web-based resource migration protocol using WebDAV

Michael Evans, Steven Furnell

May 2002 **Proceedings of the 11th international conference on World Wide Web**

WWW '02**Publisher:** ACM PressFull text available:  pdf(296.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The web's hyperlinks are notoriously brittle, and break whenever a resource migrates. One solution to this problem is a transparent resource migration mechanism, which separates a resource's location from its identity, and helps provide referential integrity. However, although several such mechanisms have been designed, they have not been widely adopted, due largely to a lack of compliance with current web standards. In addition, these mechanisms must be updated manually whenever a resource migr ...

Keywords: WebDAV, link rot, referential integrity, resource locator service, resource migration protocol, web

44 Managing images: Geographic location tags on digital images  Kentaro Toyama, Ron Logan, Asta RosewayNovember 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03****Publisher:** ACM PressFull text available:  pdf(1.97 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe an end-to-end system that capitalizes on geographic location tags for digital photographs. The World Wide Media eXchange (WWMX) database indexes large collections of image media by several pieces of metadata including timestamp, owner, and critically, location stamp. The location where a photo was shot is important because it says much about its semantic content, while being relatively easy to acquire, index, and search. The process of building, browsing, and writing applications for ...

Keywords: GIS, digital photography, geographic interfaces, image databases

45 Workshop on End-User Software Engineering (WEUSE): Naming page elements in end-user web automation  Michael Bolin, Robert C. MillerMay 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the first workshop on End-user software engineering WEUSE I**, Volume 30 Issue 4**Publisher:** ACM PressFull text available:  pdf(193.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The names of commands and objects are vital to the usability of a programming system. We are developing a web automation system in which users need to identify web page elements, such as hyperlinks and form fields, in pages written by other designers. Using a survey of 40 users asking them to provide names for page elements, we found that users' names varied widely. However, when names were restricted to using only visible words from the web page, we were able to develop name resolution technique ...

Keywords: end-user web automation, web browsers

46 Session 5: Collaborative document monitoring  Natalie Glance, Jean-Luc Meunier, Pierre Bernard, Damián ArreguiSeptember 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work GROUP '01****Publisher:** ACM PressAdditional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(449.24 KB)

[terms](#)

In this paper we present a second generation URL monitoring tool which enables the collaborative evaluation of URL content changes. In our implementation, a document monitoring agent works alongside a recommender system. Using information provided by the monitoring agent, the collaborative system alerts users when documents they are monitoring have changed. The monitoring agent provides automatic evaluation of the nature of the change. Users, however, add subjective evaluations; one user's effor ...

Keywords: URL monitoring agent, WWW, recommender system

47 Transforming the content management process at IBM.com 

 Louis Weitzman, Sara Elo Dean, Dikran Meliksetian, Kapil Gupta, Nianjun Zhou, Jessica Wu
April 2002 **Case studies of the CHI2002|AIGA Experience Design FORUM CHI '02**

Publisher: ACM Press

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This case study explores the evolution of the Franklin Content Management System, developed by IBM's Internet Technology Group. Franklin began as a technology-driven process to provide a web content management solution with the following goals: content reusability, simplified management of content and design that enforces integrity and consistency, the customization of content to individual users, and the delivery of content to a variety of display devices. These goals were met in part by the dec ...

Keywords: DTD, XML, XSL, content management, content reuse, customization, information architecture, object dependency, software development, web publishing

48 A trainable system for the extraction of meaning from text 

Amit Bagga, Joyce Chai, Alan W. Biermann, Curry I. Guinn, Alan Hui

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research CASCON '95**

Publisher: IBM Press

Full text available:  pdf(290.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This project is developing a trainable system that can extract meaning from texts in different domains (example: various Internet news-groups). The system does partial parsing based on a large dictionary containing approximately 150,000 words. The system assists the user in extracting a semantic network representation for each member of a set of training articles contained in some large database. Based on the user's training, the system forms statistical tables, a knowledge base, and a set of ru ...

49 Introduction to the electronic symposium on computer-supported cooperative work 

 Kevin L. Mills

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  pdf(79.51 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computer-supported cooperative work (CSCW) holds great importance and promise for modern society. This paper provides an overview of seventeen papers comprising a symposium on CSCW. The overview also discusses some relationships among the contributions made by each paper, and places those contributions into a larger context by identifying some of the key challenges faced by computer science researchers who aim to help us work effectively as teams mediated through networks of computers. The ...

Keywords: asynchronous collaboration, computer-supported collaborative work, human-computer interaction, information management, multimedia collaboration, multimodal collaboration

50 Blogs, wikis & rss: Web 2.0: hypertext by any other name?

 David E. Millard, Martin Ross

August 2006 **Proceedings of the seventeenth conference on Hypertext and hypermedia HYPERTEXT '06**

Publisher: ACM Press

Full text available:  pdf(198.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web 2.0 is the popular name of a new generation of Web applications, sites and companies that emphasize openness, community and interaction. Examples include technologies such as Blogs and Wikis, and sites such as Flickr. In this paper we compare these next generation tools to the aspirations of the early Hypertext pioneers to see if their aims have finally been realized.

Keywords: Web 2.0, hypertext functionality, hypertext pioneers

51 Haskell server pages through dynamic loading

 Niklas Broberg

September 2005 **Proceedings of the 2005 ACM SIGPLAN workshop on Haskell Haskell '05**

Publisher: ACM Press

Full text available:  pdf(138.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Haskell Server Pages (HSP) is a domain specific language, based on Haskell, for writing dynamic web pages. Its main features are concrete XML expressions as first class values, pattern-matching on XML, and a runtime system for evaluating dynamic web pages. The first design of HSP was made by Erik Meijer and Danny van Velzen in 2000, but it was never fully designed nor implemented. In this paper we refine, extend and improve their design of the language and describe how to implement HSP using dyna ...

Keywords: dynamic web pages, haskell, web server

52 Full papers (written in Portuguese): Freebie: an open source digital library with

 support for textual and spatial searches

Welmisson Jammesson da Silva, Cláudio de Souza Baptista, Ulrich Schiel, Elvis Rodrigues da Silva, Luciana Cavalcante de Menezes, Ricardo Madeira Fernandes

November 2006 **Proceedings of the 12th Brazilian symposium on Multimedia and the web WebMedia '06**

Publisher: ACM Press

Full text available:  pdf(799.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Nowadays there is an increasing volume of heterogeneous documents in a company, in different media such as texts, spreadsheets, images, maps, etc. Most of these documents contain relevant information about the company; hence they need to be stored, indexed and retrieved efficiently. Digital libraries aim to address this issue by providing an infrastructure which enables to manipulate these documents. Furthermore, the use of geographical location of such documents has become more attractive recen ...

Keywords: digital libraries, metadata, spatial and text databases

53 Cases from the field: Where am I and who am I? issues in collaborative technical help

Michael Twidale, Karen Ruhleder

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work CSCW '04****Publisher:** ACM PressFull text available: [pdf\(296.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a study of collaborative help-giving within several organizations settings, we identified two forms of trouble and bewilderment that we explore further in this paper. In one case, the user is confused about where they, their files, or other resources are within a larger technical infrastructure (Where am I?). In the second case, the user isn't sure which login is needed and which actions are allowed (Who am I?). We believe that these issues carry important implications for the design of in ...

Keywords: CSCW, collaborative help-giving, informal learning**54 Design expo: Unifying the cisco intranet through hierarchical navigation**

Michael Lenz, Jim Beno, Mathew Burns, Sharon Meaney

April 2005 **CHI '05 extended abstracts on Human factors in computing systems CHI '05****Publisher:** ACM PressFull text available: [pdf\(2.48 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Cisco web-enabled numerous processes during a period of rapid growth, resulting in a number of disconnected sites and tools. Although this innovation cut costs, employees could not easily find information and had to learn new models of navigation and interaction. This paper describes how the Intranet Strategy team responded by designing a hierarchical navigation system that met user and business requirements, connected numerous isolated sites, and encouraged standardization and governance of the ...

Keywords: information architecture, interaction design, intranets, navigation, usability, user interface design, user research, user-centered design, visual design**55 mPERSONA: personalized portals for the wireless user: An agent approach**

Christoforos Panayiotou, George Samaras

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6**Publisher:** Kluwer Academic PublishersFull text available: [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The needs of the wireless and mobile user regarding information access and services are quite different than those of the desktop user. This need is not about browsing the Web but about receiving personalized services that are highly sensitive to the immediate environment and requirements of the user. Personalization appears to be the most appropriate solution to this need. It comes into aid by creating personalized portals that are specific for the wireless user, which (a) are focus on the I ...

Keywords: mobile agents, mobile computing, personalization, pervasive computing, wireless portals**56 Annotea: an open RDF infrastructure for shared Web annotations**

-  José Kahan, Marja-Ritta Koivunen
April 2001 **Proceedings of the 10th international conference on World Wide Web
WWW '01**
Publisher: ACM Press
Full text available:  pdf(271.46 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

- 57** Session 10: security: Catching web crawlers in the act
 Anália G. Lourenço, Orlando O. Belo
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE
'06**
Publisher: ACM Press
Full text available:  pdf(317.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper recommends a new approach to the detection and containment of Web crawler traverses based on clickstream data mining. Timely detection prevents crawler abusive consumption of Web server resources and eventual site contents privacy or copyrights violation. Clickstream data differentiation ensures focused usage analysis, valuable both for regular users and crawler profiling. Our platform, named ClickTips, sustains a site-specific, updatable detection model that tags Web crawler traverse ...

Keywords: data webhousing, traverse patterns, web crawler, web usage mining

- 58** Audio: Peer-to-peer internet telephony using SIP
 Kundan Singh, Henning Schulzrinne
June 2005 **Proceedings of the international workshop on Network and operating systems support for digital audio and video NOSSDAV '05**
Publisher: ACM Press

Full text available:  pdf(93.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

P2P systems inherently have high scalability, robustness and fault tolerance because there is no centralized server and the network self-organizes itself. This is achieved at the cost of higher latency for locating the resources of interest in the P2P overlay network. Internet telephony can be viewed as an application of P2P architecture where the participants form a self-organizing P2P overlay network to locate and communicate with other participants. We propose a pure P2P architecture for the ...

Keywords: SIP, internet telephony, peer-to-peer

- 59** Programming languages for mobile code
 Tommy Thorn
September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3
Publisher: ACM Press

Full text available:  pdf(393.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six

representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

- 60 Design expo case studies: Creating an educational digital library: GROW a national civil engineering education resource library

Janice Lodato

April 2004 **CHI '04 extended abstracts on Human factors in computing systems CHI '04**

Publisher: ACM Press

Full text available:  [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The GROW (Geotechnical, Rock and Water Engineering) project (<http://www.grow.arizona.edu>) is the first iteration of a National Civil Engineering Education Resource Library (NCERL). This educational digital library uses precise coding and metadata to integrate fully with the National Sciences Digital Library (NSDL) and to meet the learning, teaching, and research needs of audience groups consisting of K-12, higher education, engineering professionals, and the community at large. GROW is a portal ...

Keywords: graphic design, information architecture, user experience, user interface design

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61 [Authoring for comprehension: Feral hypertext: when hypertext literature escapes](#)

Jill Walker

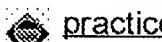
September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**

Publisher: ACM Press

Full text available: [pdf\(781.80 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper presents a historical view of hypertext looking at pre-web hypertext as a domesticated species bred in captivity, and arguing that on the web, some breeds of hypertext have gone feral. Feral hypertext is no longer tame and domesticated, but is fundamentally out of our control. In order to understand and work with feral hypertext, we need to accept this and think more as hunter-gatherers than as the farmers we have been for domesticated hypertext. The paper discusses hypertext in gener ...

Keywords: domestication, emergence, ethnoclassification, fiction, folksonomy, history, hypertext, links, literature, semantic web

62 [Photo sharing: Give and take: a study of consumer photo-sharing culture and](#)

Andrew D. Miller, W. Keith Edwards

April 2007 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07**

Publisher: ACM Press

Full text available: [pdf\(669.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present initial findings from the study of a digital photo-sharing website: Flickr.com. In particular, we argue that Flickr.com appears to support-for some people-a different set of photography practices, socialization styles, and perspectives on privacy that are unlike those described in previous research on consumer and amateur photographers. Further, through our examination of digital photographers' photowork activities-organizing, finding, sharing and receiving-we suggest ...

Keywords: consumer photography, digital photography, domestic and leisure computing, media sharing, photowork

63 Writing the web: Supporting management reporting: a writable web case study

Timothy Miles-Board, Leslie Carr, Simon Kampa, Wendy Hall
May 2003 **Proceedings of the 12th international conference on World Wide Web WWW '03**

Publisher: ACM Press

Full text available: [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World-Wide Web was originally developed as a shared, writable, hypertext medium, a facility that is still widely needed. We have recently developed a Web-based management reporting system for a legal firm in an attempt to improve the efficiency and management of their overall business process. This paper shares our experiences in relating the firm's specific writing and issue tracking tasks to existing Web, open hypermedia, and Semantic Web research, and describes why we chose to develop a ne ...

Keywords: hypertext writing, management reporting, open hypermedia, structural computing

64 Links for a better web: Enhanced web document summarization using hyperlinks

J.-Y. Delort, B. Bouchon-Meunier, M. Rifqi
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03**

Publisher: ACM Press

Full text available: [pdf\(167.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the issue of Web document summarization. As textual content of Web documents is often scarce or irrelevant and existing summarization techniques are based on it, many Web pages and websites cannot be suitably summarized. We consider the context of a Web document by the textual content of all the documents linking to it. To summarize a target Web document, a context-based summarizer has to perform a preprocessing task, during which it will be decided which pieces of informati ...

Keywords: context, hyperlinks, summarization, web document

65 Technical Session: Constructing a web-based asynchronous and synchronous

collaboration environment using WebDAV and Lotus Sametime

Changtao Qu, Wolfgang Nejdl

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**

Publisher: ACM Press

Full text available: [pdf\(477.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present our practice of constructing a Web-based asynchronous and synchronous collaboration environment for supporting collaborative distance learning between a German university and a university in Italy. We utilize the recent collaboration-friendly Internet protocol WebDAV to implement a groupware system which can support document-centric asynchronous collaboration activities, e.g., collaborative document authoring, collaborative document management, etc., as well as an indust ...

Keywords: asynchronous collaboration, lotus sametime, synchronous collaboration, web-based distributed authoring and versioning

- ◆ Hypertext culture & communication: Assembly lines: web generators as hypertexts
Elizabeth M. Losh
September 2007 **Proceedings of the 18th conference on Hypertext and hypermedia HT '07**
Publisher: ACM Press
Full text available: pdf(287.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
<http://www.ups.com/WebTracking/track>.

Keywords: PHP hacking, hypertext theory, participatory culture, web 2.0, web generators

- 67 Software Engineering for Secure Systems (SESS) --- Building Trustworthy Applications: Matching attack patterns to security vulnerabilities in software-intensive system designs
 Michael Gegick, Laurie Williams
May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications SESS '05**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(180.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fortifying software applications from attack is often an effort that occurs late in the software development process. Applying patches to fix vulnerable applications in the field is a common approach to securing applications. Abstract representations of attacks such as attack trees and attack nets can be used for identifying potential threats before a system is released. We have constructed attack patterns that can illuminate security vulnerabilities in a software-intensive system design. Matchi ...

Keywords: design, regular expression, security

- 68 MapCruncher: integrating the world's geographic information
 Jeremy Elson, Jon Howell, John R. Douceur
April 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 2
Publisher: ACM Press
Full text available: pdf(976.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
- Current large-scale interactive web mapping services such as Virtual Earth and Google Maps use large distributed systems for delivering data. However, creation and editorial control of their content is still largely centralized. The Composable Virtual Earth project's goal is to allow seamless interoperability of geographic data from arbitrary, distributed sources.

MapCruncher is a first step in this direction. It lets users easily create new interactive map data that can be layered on ...

Keywords: approximate reprojection, composition, decentralized publishing, geographic coordinate systems, graphical interactive georeferencing, image tiling, interactive maps, map projections, mashups

- 69 A system architecture for the extension of structured information spaces by

 **coordinated CSCW services****Peter Manhart****November 1999 Proceedings of the international ACM SIGGROUP conference on Supporting group work GROUP '99****Publisher:** ACM PressFull text available:  [pdf\(1.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The World Wide Web is an emerging platform for information systems; however established system architectures for web systems focus mainly on the creation and storage of consistent hypermedia information structures and on the efficient distribution of the resulting documents. The interaction between the information users is seldom supported. As many application scenarios profit greatly from human interaction, the paper presents a platform- and application-independent generic system ...

Keywords: CSCW services, group interaction, system architecture, web-based human interaction

70 Adaptive 4-8 Texture Hierarchies **Lok M. Hwa, Mark A. Duchaineau, Kenneth I. Joy****October 2004 Proceedings of the conference on Visualization '04 VIS '04****Publisher:** IEEE Computer SocietyFull text available:  [pdf\(315.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

We address the texture level-of-detail problem for extremely large surfaces such as terrain during realtime, view-dependent rendering. A novel texture hierarchy is introduced based on 4-8 refinement of raster tiles, in which the texture grids in effect rotate 45 degrees for each level of refinement. This hierarchy provides twice as many levels of detail as conventional quadtree-style refinement schemes such as mipmaps, and thus provides per-pixel view-dependent filtering that is twice as close to ...

Keywords: Large Data Set Visualization, Level-of-Detail Techniques, View-Dependent Visualization, Adaptive Textures, Out-of-Core Algorithms

71 Demonstrations: Social networks for creative collaboration  **Tracy Cohen, Ben Clemens****April 2005 Proceedings of the 5th conference on Creativity & cognition C&C '05****Publisher:** ACM PressFull text available:  [pdf\(409.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Authors are colleagues within the User Experience Discipline at Avenue A | Razorfish, a services consulting firm that designs user centered applications and solutions for business and consumer brands. The User Experience discipline employs approximately 50 interface designers, information architects and experience designers across the United States. A social networking application has been developed in-house to promote creative collaboration within the organization. The organizational problem ...

Keywords: blogs, collaboration tools, knowledge management, peer reviews, profile management, social networks

72 sTeam - Designing an integrative infrastructure for Web-based computer-supported cooperative learning **Thorsten Hampel, Reinhard Keil-Slawik****April 2001 Proceedings of the 10th international conference on World Wide Web**

WWW '01**Publisher:** ACM PressFull text available:  pdf(265.67 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cooperation support, cooperative learning, learner-centered approaches, sTeam - structuring information in a team, web-based learning and teaching

73 Intrusion detection and prevention: On deriving unknown vulnerabilities from zero-day  polymorphic and metamorphic worm exploits

Jedidiah R. Crandall, Zhendong Su, S. Felix Wu, Frederic T. Chong

November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05****Publisher:** ACM PressFull text available:  pdf(334.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Vulnerabilities that allow worms to hijack the control flow of each host that they spread to are typically discovered months before the worm outbreak, but are also typically discovered by third party researchers. A determined attacker could discover vulnerabilities as easily and create zero-day worms for vulnerabilities unknown to network defenses. It is important for an analysis tool to be able to generalize from a new exploit observed and derive protection for the vulnerability. Many researcher ...

Keywords: honeypots, metamorphism, polymorphic worms, polymorphism, symbolic execution, worms

74 Experimental testbeds and data: The changing usage of a mature campus-wide  wireless network

Tristan Henderson, David Kotz, Ilya Abyzov

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04****Publisher:** ACM PressFull text available:  pdf(625.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless Local Area Networks (WLANs) are now commonplace on many academic and corporate campuses. As "Wi-Fi" technology becomes ubiquitous, it is increasingly important to understand trends in the usage of these networks. This paper analyzes an extensive network trace from a mature 802.11 WLAN, including more than 550 access points and 7000 users over seventeen weeks. We employ several measurement techniques, including syslogs, telephone records, SNMP polling and tcpdump packet sniffing. This is ...

Keywords: 802.11, VoIP, WLAN, Wi-Fi, telephony, voice, wireless network

75 Posters: Entity consolidation and alignment in semi-structured data sources  Eduard Hovy, Andrew Philpot, Patrick PantelMay 2006 **Proceedings of the 2006 international conference on Digital government research dg.o '06****Publisher:** ACM PressFull text available:  pdf(261.53 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A large portion of collected data is stored in semi-structured form, i.e., organized or related through columns or lists but without any formal schema or metadata. For example,

many government organizations and companies feature employee directories and project affiliations in HTML tables on their websites. Making sense of these requires automatic methods for data alignment, matching and/or merging. Here, we describe *Guspin*, a tool for automatically consolidating entities and for aligning ...

Keywords: entity consolidation, equivalence class detection, information theory, mutual information, semi-structured data

76 Support for location: An architecture for privacy-sensitive ubiquitous computing 

 Jason I. Hong, James A. Landay

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available:  [pdf\(658.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Privacy is the most often-cited criticism of ubiquitous computing, and may be the greatest barrier to its long-term success. However, developers currently have little support in designing software architectures and in creating interactions that are effective in helping end-users manage their privacy. To address this problem, we present Confab, a toolkit for facilitating the development of privacy-sensitive ubiquitous computing applications. The requirements for Confab were gathered through an an ...

Keywords: confab, location, privacy, toolkit, ubiquitous computing

77 Collaborative Filtering: Diffusing information in organizational settings: learning from experience 

 Dave Snowdon, Antonietta Grasso

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves CHI '02**

Publisher: ACM Press

Full text available:  [pdf\(815.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recommender systems selectively circulate information enriched with comments and feedback based on people's experience. These systems filter information in a semi-automatic and high-quality way in order to support a community during their work or leisure practices. However recommender systems are usually separate tools that require a degree of effort to be used, both when receiving information and to insert new feedback. In this paper we present our informal experiences with the use of multiple ...

Keywords: information sharing, large-screens, recommender systems, serendipity

78 Inspiring teamwork & communication with a content management system 

 Daniel B. Delgado

October 2007 **Proceedings of the 35th annual ACM SIGUCCS conference on User services SIGUCCS '07**

Publisher: ACM Press

Full text available:  [pdf\(205.68 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Content Management Systems (CMS) take may shapes and forms and most are familiar with them. CMSs include everything from portals to blogs and wikis. Many organizations use CMS as websites to collate and organize information in readily available chunks. However, in a lab environment CMSs can increase teamwork and communications as well

as stopping the knowledge drain as student employees graduate.

Before attending SIGUCCS '05, I led the development of many new online systems for the CIR ...

Keywords: AT, CIRCA, CMS, Daniel Delgado, UF, University of Florida, communication, content management system, deploying software systems, e107, requirements gathering, teamwork, technology consultants

79 Experiences using Java: Extending and contributing to an open source web-based system for the assessment of programming problems

 Olly Gotel, Christelle Scharff, Andy Wildenberg

September 2007 **Proceedings of the 5th international symposium on Principles and practice of programming in Java PPPJ '07**

Publisher: ACM Press

Full text available:  [pdf\(586.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the development of a web-based programming and assessment environment for use in supporting programming fundamentals courses (CS1, CS2) taught in Java. This environment is currently linked with WeBWorK, an open source web-based system developed at the University of Rochester that is popular for administering and assessing mathematics and physics coursework, but is designed for the potential integration with other course management system (CMS) environments. In addition to ...

Keywords: Eclipse, JUnit, Java, WeBWorK, automated grading, open source, peer-review, testing

80 Formalising Java RMI with explicit code mobility

 Alexander Ahern, Nobuko Yoshida

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(293.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a Java-like core language with primitives for object-oriented distribution and explicit code mobility. We apply our formulation to prove the correctness of several optimisations for distributed programs. Our language captures crucial but often hidden aspects of distributed object-oriented programming, including object serialisation, dynamic class downloading and remote method invocation. It is defined in terms of an operational semantics that concisely models the behaviour of ...

Keywords: Java, RMI, code mobility, distribution, optimisation, runtime, types

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81 Traversing the LMS terrain

Kelly Wainwright, Mike Osterman, Christina Finneman, Bill Hill

October 2007 **Proceedings of the 35th annual ACM SIGUCCS conference on User services SIGUCCS '07**

Publisher: ACM Press

Full text available: [pdf\(226.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

With the emergence of strong open source contenders in the Learning Management System (LMS) arena, many schools are evaluating whether to stay with one of the commercial LMS products such as Blackboard/WebCT or moving to one of the open source solutions which are free to use, but offer no corporate support. There are many factors contributing to such a decision beyond price including migration from a current LMS, technical and faculty support and buy in. In the end, it is a decision that an i ...

Keywords: ANGEL, blackboard, learning management system, moodle, open-source, sakai



82 File and storage systems: A heterogeneous storage grid enabled by grid service

Yuhui Deng, Frank Wang

January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1

Publisher: ACM Press

Full text available: [pdf\(202.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Due to the explosive increase of data, storage Grid is a new model for deploying and managing storage resources distributed across multiple systems and networks, making efficient use of available storage capacity. Building a storage Grid demands corresponding protocols and standards to provide interoperability among the large number of heterogeneous storage systems. Service is becoming a basic application pattern of Grid because the service offers a standard means of interoperateing between diffe ...

Keywords: architecture, grid service, heterogeneous storage system, interoperability, storage grid, web service



83 Teleteaching anywhere solution kit (Tele-TASK) goes mobile

Katrin Wolf, Serge Linckels, Christoph Meinel

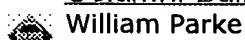
October 2007 **Proceedings of the 35th annual ACM SIGUCCS conference on User**

services SIGUCCS '07**Publisher:** ACM PressFull text available:  pdf(644.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Tele-TASK is a tool for recording lectures and presentations. It does not only record the audio and video of the speaker but also everything happening on the presenter's computer. No matter if he is showing a Powerpoint presentation, a software demo or even the BIOS configuration of the computer, tele-TASK is able to record, encode and stream the whole presentation out of the box. The result is one synchronized and platform independent multimedia video in the RealMedia format. Hundreds of Tel ...

Keywords: e-learning, iPod, mobile learning, podcasting, teleteaching, video encoding

- 84 Column: Building internet applications with APL+Win: FTPClientX and HTTPClientX 



William Parke

December 2001 **ACM SIGAPL APL Quote Quad**, Volume 32 Issue 2**Publisher:** ACM PressFull text available:  pdf(74.58 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

- 85 Hypermedia systems: Storm: using P2P to make the desktop part of the web 



Benja Fallenstein, Tuomas J. Lukka, Hermanni Hyttiälä, Toni Alatalo

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03****Publisher:** ACM PressFull text available:  pdf(36.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present Storm, a storage system which unifies the desktop and the public network, making Web links between desktop documents more practical. Storm assigns each document a permanent unique URI when it is created. Using peer-to-peer technology, we can locate documents even though our URIs do not include location information. Links continue to work unchanged when documents are emailed or published on the network. We have extended KDE to understand Storm URIs. Other systems such as GNU Emacs are ...

Keywords: content addressable networks, dangling links, location-independent identifiers, peer-to-peer

- 86 Computer applications: A Java OpenCard framework based medical smartcard system 

David Gildea, Tom Dowling

June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java PPPJ '03****Publisher:** Computer Science Press, Inc.Full text available:  pdf(193.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The architecture and use of the java OpenCard Framework, (OCF), to develop SmartCard systems is discussed. The protocols involved and the different layers that comprise the systems are also discussed. The design and implementation of an OCF based personal Medical SmartCard system is presented.

Keywords: OpenCard Framework, smart cards

87 Specification mining: SMarTIC: towards building an accurate, robust and scalable specification miner

 David Lo, Siau-Cheng Khoo

November 2006 **Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '06/FSE-14**

Publisher: ACM Press

Full text available:  pdf(439.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Improper management of software evolution, compounded by imprecise, and changing requirements, along with the "short time to market" requirement, commonly leads to a lack of up-to-date specifications. This can result in software that is characterized by bugs, anomalies and even security threats. Software specification mining is a new technique to address this concern by inferring specifications automatically. In this paper, we propose a novel API specification mining architecture called SMarTIC ...

Keywords: clustering traces, filtering errors, specification mining

88 Information extraction 1: Integrating data and text mining processes for digital library applications

 Robert Sanderson, Paul Watry

June 2007 **Proceedings of the 2007 conference on Digital libraries JCDL '07**

Publisher: ACM Press

Full text available:  pdf(297.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper explores the integration of text mining and data mining techniques, digital library systems, and computational and data grid technologies with the objective of developing an online classification service exemplar. We discuss the current research issues relating to the use of data mining algorithms and toolkits for textual data; the necessary changes within the Cheshire3 Information Framework to accommodate analysis workflows; the outcomes of a demonstrator based on the National Lib ...

Keywords: data mining, digital libraries, grid processing, text mining

89 Software's little helpers: managing your lab areas

 Doug Simpson

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**

Publisher: ACM Press

Full text available:  pdf(180.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There are always more labs and other things to attend to than available bodies to watch over said pesky details. How can we keep an eye on the ever-present large and small events in our labs while dealing with Yet More Interruptions elsewhere?

At the University of Oregon, we have found three utilities and/or technologies particularly useful:KeyServer, to monitor unauthorized and unusual software eventsRemote web camerasWeb pages display ...

Keywords: banned or prohibited applications, keyServer, report generation, web cameras

90

Vision & challenges: Challenge: ubiquitous location-aware computing and the "place lab" initiative

 Bill N. Schilit, Anthony LaMarca, Gaetano Borriello, William G. Griswold, David McDonald, Edward Lazowska, Anand Balachandran, Jason Hong, Vaughn Iverson
September 2003 Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03

Publisher: ACM Press

Full text available:  pdf(835.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To be widely adopted, location-aware computing must be as effortless, familiar and rewarding as web search tools like Google. We envisage the global scale Place Lab, consisting of an open software base and a community building activity as a way to bootstrap the broad adoption of location-aware computing. The initiative is a laboratory because it will also be a vehicle for research and instruction, especially in the formative stages. The authors draw on their experiences with campus and building- ...

Keywords: GPS, WiFi, context-aware, location-aware, positioning systems, ubiquitous, wardriving, web services, wireless hotspots

91 Privacy, security and trust track: Persistent information security: beyond the e-commerce threat model 

 Merv Matson, Mihaela Ulieru
August 2006 Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06

Publisher: ACM Press

Full text available:  pdf(302.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces a new class of information security solution. The core technology, to authorize and track the use of digital files, was originally developed in eCommerce applications, there known as Digital Rights Management (DRM). In applications to non-commercial confidential records, such as health and safety documents, we call the solution "Persistent Information Security". We distinguish it from DRM because the threat models of the fields of application differ significantly. An implem ...

Keywords: DRM, digital rights management, document security, insecurity expense, persistent information security, risk remediation, threat model

92 System demonstrations and posters: MENVIS: mobile environmental information system 

 Soon Ae Chun, Nabil R. Adam, Vijay Atluri
May 2007 Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domains dg.o '07

Publisher: Digital Government Research Center

Full text available:  pdf(128.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile information dissemination and sharing infrastructure is being proposed to support ubiquitous government. We report a Mobile Environmental Information System (MENVIS) that delivers auto-guided environmental tour information for New Jersey and New York city government agencies that take initiatives on restoring degraded environment in urban areas. MENVIS is intended not only to support staff engineers and scientists to collect data from the field using mobile devices, but also enhance th ...

Keywords: collaborative computing and learning, environmental data, location-based tour guide system, mobile information systems, ubiquitous government, web-based interaction

93 Theory & human computer interaction & programming languages: The development of a Voice System that interacts with a student information database

 Yifang Gu, Juan E. Gilbert

April 2004 **Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**

Publisher: ACM Press

Full text available:  [pdf\(403.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the ongoing popularity of mobile computing technology, people spend more and more time on their modern telecommunication devices. Therefore, speech information access gives people more mobility. In addition, people with reading difficulty, visual impairment, and/or any difficulty using a keyboard, or mouse can rely on speech as an alternate approach for information access. To support speech information access in the education area, this paper presents a voice application that interacts with ...

Keywords: VoiceXML, speech information access, student information database

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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Hao Shi; Yanchun Zhang; Jingyuan Zhang; Beal, E.; Moustakas, N.;
[Computer and Computational Sciences, 2006. IMSCCS '06. First International Multi-Symposiums on](#)
Volume 1, 20-24 June 2006 Page(s):552 - 559
Digital Object Identifier 10.1109/IMSCCS.2006.45

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IET CNF	IET Conference Proceeding
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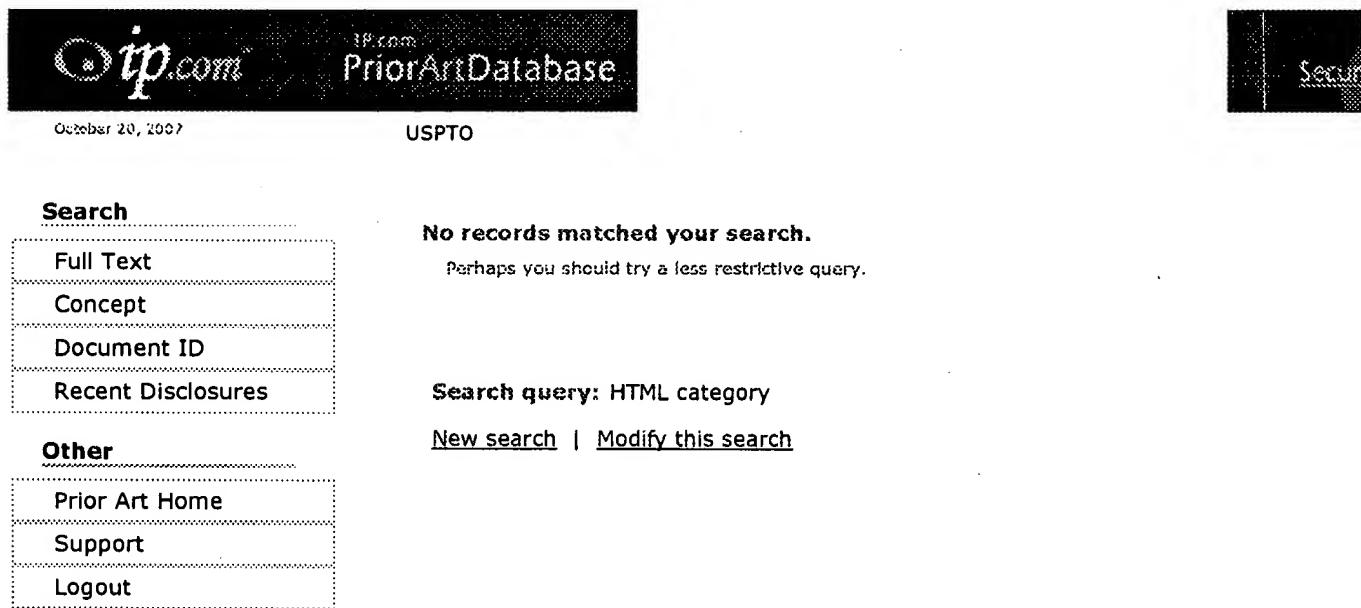
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Serif, T.; Ghinea, G.;
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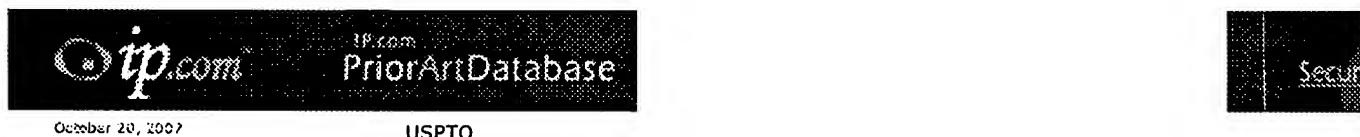
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